

OBJECT SET OPTIMIZATION USING DEPENDENCY INFORMATION

ABSTRACT

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A method for optimizing dependencies for a set of objects includes:
automatically detecting dependencies among a set of objects, where each of the
objects in the set includes at least one linkable file; adding the detected dependencies
to a dependency list; and removing dependencies from the dependency list for any
10 object that does not have at least one file dependency. The method optionally
includes removing unused files from the set of objects, breaking a selected object into
smaller objects, and making a file having a large number of dependencies into its own
object. A method for providing a tutorial using a set of objects having dependencies
includes developing a course from an initial set of objects each including at least one
15 linkable file. The initial set of objects is improved for at least one of the transmission
and storage by the automatic detection of dependency information with regards to the
initial sets of objects. This dependency information is preferably used to improve the
performance of the set of objects by at least one of modifying, removing, splitting, and
forming objects.